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Claim 17. (once amended) The [transmission coupling] composite material of Claim [15] 1, in which the modified cyanate ester resin content in the fabric as cured is about [12% - 17%] 10% - 18% by weight of the cured resin based on the combined weight of fabric and cured resin.

Claim 26. (once amended) A method of forming a composite suitable for use as a wet friction material coupling in applications selected from the class consisting of transmission couplings, automatic lockers, limited slip differentials, smart clutches, synchronizers, brakes and the like, [comprising] consisting of: impregnating a [plain] woven fabric with a modified cyanate ester or oligomer, the fabric being formed from a continuous, untwisted carbon or graphite filament yarn having about an end count of 3,000 - 12,000, the modified cyanate resin or oligomer as cured in the fabric being about 10% - 50% based on the weight of the fabric and cured resin, and the composite thickness being about 0.015 - 0.080 inches [.] , the yarn being manufactured and constructed as a surface bonding for use on the coupling.

Claim 27. (new) The composite material of Claim 11, comprising a cured material thickness of about 0.015 - 0.080 inches; and, an end count of about 1,000 - 24,000 continuous filaments.

Claim 28. (new) The composite material of Claim 11, comprising a cured material thickness of about 0.015 - 0.080 inches; an end count of about 1,000 - 24,000 continuous filaments; and, about 10% - 50% by weight of the modified cyanate ester or oligomer as cured in the fabric.

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- 1. (once amended) A wet-friction, composite material suitable for use as a coupling in applications selected from the class consisting of wet transmission couplings, automatic lockers, limited slip differentials, smart clutches, synchronizers, brakes and the like, [comprising] consisting of: a carbon or graphite fabric formed from a woven, continuous, untwisted filament yarn, and impregnated with modified cyanate esters resin or oligomers which are subsequently cured [.], the yarn being manufactured and constructed as a surface bonding for use on the coupling.
- 2. (not amended) The composite material of Claim 1, in which the modified, cured cyanate ester resin weight in the fabric is at least 10% by weight of the cured resin based on the combined weight of fabric and cured resin.
- 3. (not amended) The composite material of Claim 1, in which the modified cyanate ester resin in the fabric is about 10% 50% by weight of the cured resin based on the combined weight of fabric and cured resin.
- 4. (not amended) The composite material of Claim 1, in which the modified cyanate ester resin in the fabric is about 10% 35% by weight of the cured resin based on the combined weight of fabric and cured resin.
- 5. (not amended) The composite material of Claim 1, in which the modified cyanate ester resin weight in the fabric is about 10% 25% by weight of the cured resin based on the combined weight of fabric and cured resin.

- 6. (not amended) The composite material of Claim 1, in which the modified cyanate ester resin in the fabric is about 10% 18% by weight of the cured resin based on the combined weight of fabric and cured resin.
- 7. (not amended) The composite material of Claim 1, in which the modified cyanate ester resin in the fabric is about 12% 17% by weight of the cured resin based on the combined weight of fabric and cured resin.
- 8. (not amended) The composite material of Claim 1, in which the modified cyanate ester resin in the fabric is about 40% 50% by weight of the cured resin based on the combined weight of fabric and cured resin.
- 9. (not amended) The composite material of Claim 1, provided as a supplied product including an adhesive coating for applying to a metal surface, an adhesive film for application to a metal surface, or a cured fabric without an adhesive coating.
- 10. (not amended) The composite material of Claim 1, in which the fabric is formed as a continuous spiral, cut to size and bonded to the transmission in one piece.
- 11. (once amended) The composite material of Claim 1, [in] which [the] further comprises fabric material [is] selected from the class consisting of [carbon, graphite,] ceramics, boron, aramid fiber, glass, quartz, silica and mixtures thereof.
- 12. (not amended) The composite material of Claim 1,, in which the fabric weave is a plain weave.
- 13. (not amended) The composite material of Claim 1, in which the fabric weave includes: braided, 5 and 8 harness satin,, basket, twill and, crowfoot satin.

- 21. (not amended) The composite material of Claim 1, comprising a cured material thickness of about 0.024 0.028 inches.
- 22. (not amended) The composite material of Claim 1, comprising a cured material thickness of about 0.024 0.080 inches, and an end count of about 6,000 12,000 continuous filaments.
- 23. (not amended) The composite material of Claim 1, comprising a cured material thickness of about 0.024 0.028 inches, and an end count of about 6,000 12,000 continuous filaments.
- 24. (not amended) The composite material of Claim 1, in which the modified, cyanate ester resin or oligomer is cured.
- 25. (not amended) The composite material of Claim 1, comprising at least two layers of material adhesively bonded together.
- 26. (once amended) A method of forming a composite suitable for use as a wet friction material coupling in applications selected from the class consisting of transmission couplings, automatic lockers, limited slip differentials, smart clutches, synchronizers, brakes and the like, [comprising] consisting of: impregnating a [plain] woven fabric with a modified cyanate ester oligomer, the fabric being formed from a continuous, untwisted carbon or graphite filament yarn having about an end count of 3,000 12,000, the modified cyanate ester resin or oligomer as cured in the fabric being about 10% 50% based on the weight of the fabric and cured resin, and the composite thickness being about 0.015 0.080 inches [.] , the yarn being manufactured and constructed as a surface bonding for use on the coupling.
- 27. (new) The composite material of Claim 1, comprising a cured material thickness of about 0.015 0.018 inches, and an end count of 1,000 24,000 continuous filaments.

28. (new) The composite material of Claim 11, comprising a cured material thickness of about 0.015 - 080 inches; an end count of about 1,000 - 24,000 continuous filaments; and, about 10% - 50% by weight of the modified cyanate ester or oligomer as cured in the fabric.

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- 1. A wet-friction, composite material suitable for use as a coupling in applications selected from the class consisting of wet transmission couplings, automatic lockers, limited slip differentials, smart clutches, synchronizers, brakes and the like, consisting of: a carbon or graphite fabric formed from a woven, continuous, untwisted filament yarn, and impregnated with modified cyanate esters resin or oligomers which are subsequently cured, the yarn being manufactured and constructed as a surface bonding for use on the coupling.
- 2. The composite material of Claim 1, in which the modified, cured cyanate ester weight in the fabric is at least 10% by weight of the cured resin based on the combined weight of fabric and cured resin.
- 3. The composite material of Claim 1, in which the modified cyanate ester resin in the fabric is about 10% 50% by weight of the cured resin based on the combined weight of fabric and cured resin.
- 4. The composite material of Claim 1, in which the modified cyanate ester resin in the fabric is about 10% 35% by weight of the cured resin based on the combined weight of fabric and cured resin.
- 5. The composite material of Claim 1, in which the modified cyanate ester resin weight in the fabric is about 10% 25% by weight of the cured resin based on the combined weight of fabric and cured resin.
- 6. The composite material of Claim 1, in which the modified cyanate ester resin in the fabric is about 10% 18% by weight of the cured resin based on the combined weight of fabric and cured resin.
- 7. The composite material of Claim 1, in which the modified cyanate ester resin in the fabric is about 12% 17% by weight of the cured resin based on the combined weight of fabric and cured resin.

- 8. The composite material of Claim 1, in which the modified cyanate ester resin in the fabric is about 40% 50% by weight of the cured resin based on the combined weight of fabric and cured resin.
- 9. The composite material of Claim 1, provided as a supplied product including an adhesive coating for applying to a metal surface, an adhesive film for application to a metal surface, or a cured fabric without an adhesive coating.
- 10. The composite material of Claim 1, in which the fabric is formed as a continuous spiral, cut to size and bonded to the transmission in one piece.
- 11. The composite material of Claim 1, which further comprises fabric material selected from the class consisting of ceramics, boron, aramid fiber, glass, guartz, silica and mixtures thereof.
- 12. The composite material of Claim 1, in which the fabric weave is a plain weave.
- 13. The composite material of Claim 1, in which the fabric weave includes: braided, 5 an 8 harness satin, basket, twill and, crowfoot satin.
- 14. The composite material of Claim 1, formed from a prepreg in which the modified cyanate ester resin or oligomer is selected from the class consisting of: polycyanate ester modified with silicone elastomer, polycyanate ester modified with epoxy resin, polycyanate ester modified with polycyanate ester modified with polyphenoxy resin, polycyanate ester modified with polysulfone or polyether sulfone resins, polycyanate ester modified with polyimide resins, polycyanate ester modified with polycyanate ester modified with diglycidyl ether novolac resins, and polycyanate ester modified with cresol novolac resins.

15. and, 16. are cancelled.

- 17. The transmission coupling of Claim 12, in which the modified cyanate ester resin content in the fabric as cured is about 12% 17% of the cured resin based on the combined weight of fabric and cured resin.
- 18. The composite material of Claim 1, comprising a yarn end count of 1,000 24,000 continuous filaments.
- 19. The composite material of Claim 1, comprising a yarn end count of about 3,000 12000 continuous filaments.
- 20. The composite material of Claim 1, comprising a cured material thickness of about 0.015 0.080 inches.
- 21. The composite material of Claim 1, comprising a cured material thickness of about 0.024 0.028 inches.
- 22. The composite material of Claim 1, comprising a cured material thickness of about 0.024 0.080 inches, and an end count of about 6,000 12,000 continuous filaments.
- 23. The composite material of Claim 1, comprising a cured material thickness of about 0.024 0.028 inches, and an end count of about 6,000 12,000 continuous filaments.
- 24. The composite material of Claim 1, comprising at least two layers of material adhesively bonded together.
- 25. The composite material of Claim 1, comprising at least two layers of material adhesively bonded together.

- 26. A method of forming a composite suitable for use as a wet friction material coupling in applications selected from the class consisting of transmission couplings, automatic lockers, limited slip differentials, smart clutches, synchronizers, brakes, and the like, consisting of: impregnating a woven fabric with a modified cyanate ester oligomer, the fabric being formed from a continuous, untwisted carbon or graphite filament yarn having about an end count of 3,000 12,000, the modified cyanate ester resin or oligomer as cured in the fabric being about 10% 50% by weight of the fabric and cured resin, and the composite thickness being about 0.015 0.080 inches, the yarn being manufactured and constructed as a surface bonding for use on the coupling.
- 27. The composite material of Claim 1, comprising a cured material thickness of about 0.015 0.018 inches, and an end count of 1,000 24,000 filaments.
- 28. The composite material of Claim 11, comprising a cured material thickness of about 0.015 0.080 inches; an end count of about 1,000 -24,000 continuous filaments; and, about 10% 505 by weight of the modified cyanate ester or oligomer as cured in the fabric.